



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

- Application Serial Number:

10/538, 129

Source:

PCT

Date Processed by STIC:

06/16/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/538, 129

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 06/16/2005

PATENT APPLICATION: US/10/538,129

TIME: 10:23:26

Input Set : A:\PG5044 seq list.txt

Output Set: N:\CRF4\06162005\J538129.raw

4 <110> APPLICANT: Catchpole, Ian
 6 <120> TITLE OF INVENTION: Vaccine
 8 <130> FILE REFERENCE: PG5044
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/538,129
 C--> 11 <141> CURRENT FILING DATE: 2005-06-06
 13 <150> PRIOR APPLICATION NUMBER: GB 0228540.1
 14 <151> PRIOR FILING DATE: 2002-12-06
 16 <160> NUMBER OF SEQ ID NOS: 21
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 20
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Artificial sequence
 28 <400> SEQUENCE: 1
 29 tccatgacgt tctgacgtt
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 14
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Artificial sequence
 39 <400> SEQUENCE: 2
 40 ggaaggaagg aagg
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 34
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: Artificial sequence
 50 <400> SEQUENCE: 3
 51 tccatgacgt tctgacgtt ggaaggaagg aagg
 53 <210> SEQ ID NO: 4
 54 <211> LENGTH: 20
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Artificial sequence
 61 <400> SEQUENCE: 4
 62 tccatgacgt tctgacgtt
 64 <210> SEQ ID NO: 5
 65 <211> LENGTH: 18

Does Not Comply
Corrected Diskette Needed

(pg 1-4)

what is the genetic source
of material

Invalid Response
See Item # 11
in Summary Sheet

Same Error

14

Same Error

34

Same Error

20

RAW SEQUENCE LISTING

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Input Set : A:\PG5044 seq list.txt

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66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Artificial sequence
 72 <400> SEQUENCE: 5
 73 tctcccagcg tgcgccat
 75 <210> SEQ ID NO: 6
 76 <211> LENGTH: 30
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Artificial Sequence
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: Artificial sequence
 83 <400> SEQUENCE: 6
 84 accgatgacg tcgccggtga cggcaccacg
 86 <210> SEQ ID NO: 7
 87 <211> LENGTH: 20
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Artificial sequence
 94 <400> SEQUENCE: 7
 95 tccatgacgt tcttgatgct
 97 <210> SEQ ID NO: 8
 98 <211> LENGTH: 13
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Artificial Sequence
 102 <220> FEATURE:
 103 <223> OTHER INFORMATION: Artificial sequence
 105 <400> SEQUENCE: 8
 106 ctctctctct etc
 108 <210> SEQ ID NO: 9
 109 <211> LENGTH: 14
 110 <212> TYPE: DNA
 111 <213> ORGANISM: Artificial Sequence
 113 <220> FEATURE:
 114 <223> OTHER INFORMATION: Artificial sequence
 116 <400> SEQUENCE: 9
 117 ccttccttcc ttcc
 119 <210> SEQ ID NO: 10
 120 <211> LENGTH: 13
 121 <212> TYPE: DNA
 122 <213> ORGANISM: Artificial Sequence
 124 <220> FEATURE:
 125 <223> OTHER INFORMATION: Artificial sequence
 127 <400> SEQUENCE: 10
 128 gagagagaga gag
 130 <210> SEQ ID NO: 11
 131 <211> LENGTH: 11
 132 <212> TYPE: DNA

18
30
20
13
14
13

Same errors
✓

RAW SEQUENCE LISTING

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DATE: 06/16/2005

TIME: 10:23:26

Input Set : A:\PG5044 seq list.txt

Output Set: N:\CRF4\06162005\J538129.raw

✓ SAME
errors

```

133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Artificial sequence
138 <400> SEQUENCE: 11
139 ctctctctct c 11
141 <210> SEQ ID NO: 12
142 <211> LENGTH: 18
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Artificial sequence
149 <400> SEQUENCE: 12
150 ctctctctcc tctctctc 18
152 <210> SEQ ID NO: 13
153 <211> LENGTH: 11
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Artificial sequence
160 <400> SEQUENCE: 13
161 ctctctctct c 11
163 <210> SEQ ID NO: 14
164 <211> LENGTH: 34
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Artificial sequence
171 <400> SEQUENCE: 14
172 tccatgacgt tcttgacgtt tgagagagag agag 34
174 <210> SEQ ID NO: 15
175 <211> LENGTH: 34
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Artificial sequence
182 <400> SEQUENCE: 15
183 tccatgagct tcttgagtct tgagagagag agag 34
185 <210> SEQ ID NO: 16
186 <211> LENGTH: 13
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Artificial sequence
193 <400> SEQUENCE: 16
194 gagagagaga gag 13
196 <210> SEQ ID NO: 17
197 <211> LENGTH: 20
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,129

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Input Set : A:\PG5044 seq list.txt

Output Set: N:\CRF4\06162005\J538129.raw

same errors

201 <220> FEATURE:
202 <223> OTHER INFORMATION: Artificial sequence
204 <400> SEQUENCE: 17
205 tccatgagct tcttgagtct 20
207 <210> SEQ ID NO: 18
208 <211> LENGTH: 35
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Artificial sequence
215 <400> SEQUENCE: 18
216 tccatgacgt tcttgacgtt tggaaggaag gaagg 35
218 <210> SEQ ID NO: 19
219 <211> LENGTH: 35
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Artificial sequence
226 <400> SEQUENCE: 19
227 tccatgagct tcttgagtct tggaaggaag gaagg 35
229 <210> SEQ ID NO: 20
230 <211> LENGTH: 35
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Artificial sequence
237 <400> SEQUENCE: 20
238 aggatgacgt tggagacgtt tggaaggaag gaagg 35
240 <210> SEQ ID NO: 21
241 <211> LENGTH: 35
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Artificial sequence
248 <400> SEQUENCE: 21
249 aggatgagct tggagagtct tggaaggaag gaagg 35

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/538,129

DATE: 06/16/2005

TIME: 10:23:27

Input Set : A:\PG5044 seq list.txt

Output Set: N:\CRF4\06162005\J538129.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date